MutecPower USB302

MutecPower 24 FT Active USB 3.0 Extension Cable User Manual

Model: USB302

1. INTRODUCTION

This manual provides instructions for the MutecPower 24 FT Active USB 3.0 Extension Cable (Model: USB302). This cable is designed to extend the reach of your USB 3.0 and USB 2.0 devices, maintaining high data transfer speeds and signal integrity over longer distances. It is suitable for connecting various peripherals such as hard drives, USB hubs, mice, keyboards, flash drives, and printers to your computer or Windows tablet.

Image 1: The MutecPower 24 FT Active USB 3.0 Extension Cable, coiled for storage, showing the male and female connectors.

2. KEY FEATURES

- **High Performance:** Extends USB 3.0 and USB 2.0 connections for various peripherals.
- **Fast Data Transfer:** Supports USB 3.0 data transmission speeds up to 5 Gbit/s, which is

approximately ten times faster than USB 2.0 (480 Mbit/s).

- **Backward Compatibility:** Utilizes USB 3.0 dual-bus architecture, allowing simultaneous USB 2.0 (Full Speed, Low Speed, or High Speed) and USB 3.0 (SuperSpeed) operations.

- **Durable Design:** Engineered with molded strain relief connectors for enhanced durability and grip treads for easy plugging and unplugging.

- **Reliable Signal:** Features gold-plated connectors, bare copper conductors, and foil & braid shielding for superior cable performance and error-free data transmission.

- **Safety Compliant:** ROHS Approved, meeting all relevant regulations.

Image 2: A close-up view of the USB 3.0 male connector, highlighting its blue interior and the USB SuperSpeed logo.

3. SETUP AND INSTALLATION

1. **Identify Connectors:** The cable has a USB 3.0 Type-A male connector on one end and a USB 3.0 Type-A female connector on the other, with an integrated signal booster unit.

2. **Connect to Host Device:** Plug the USB 3.0 Type-A male connector into an available USB 3.0 port on your computer, laptop, or Windows tablet. Ensure a secure connection.

3. **Connect Peripheral Device:** Plug your USB 3.0 or USB 2.0 peripheral device (e.g., external hard drive, printer, webcam) into the USB 3.0 Type-A female connector of the extension cable.

4. **Optional External Power (if needed):** For high-power consumption devices or if experiencing unstable connections, an optional 5V 2A power adapter (not included) can be connected to the DC jack on the active extension unit. This provides additional power to the connected device and helps maintain signal integrity over the extended length.

5. **Verify Connection:** Once connected, your operating system should automatically detect the peripheral device. Check device manager or system settings to confirm proper recognition.

Image 3: The USB 3.0 male connector and the active female extension unit, showing the DC power input port.

Your browser does not support the video tag.

Video 1: An overview of the MutecPower USB Extension Cable, demonstrating its features and compatibility.

4. OPERATION

Once the MutecPower Active USB 3.0 Extension Cable is properly connected, it operates transparently. The integrated chipset actively boosts the signal, ensuring that data transfer speeds and power delivery remain consistent over the extended length.

- **Data Transfer:** Files will transfer at speeds up to 5 Gbps when connected to a USB 3.0 port and device.
- **Device Functionality:** Connected peripherals should function as if directly connected to the host computer, without noticeable latency or performance degradation.
- **Power Indicator:** The active extension unit may feature a "Power" indicator light, which illuminates when the cable is receiving power from the host or an optional external power adapter.
- **Link Indicator:** A "Link" indicator light may also be present, signifying an active data connection between the host and the peripheral.

5. MAINTENANCE

To ensure the longevity and optimal performance of your MutecPower Active USB 3.0 Extension Cable, follow these maintenance guidelines:

- **Storage:** Store the cable in a cool, dry place away from direct sunlight and extreme temperatures. When coiling, avoid sharp bends that could damage internal wiring.
- **Cleaning:** Use a soft, dry cloth to clean the cable and connectors. Avoid using liquid cleaners or

solvents.

- **Handling:** Always grasp the connector housing when plugging or unplugging the cable. Avoid pulling directly on the cable itself, as this can damage the internal wires or connectors.
- **Protection:** Do not expose the cable to excessive force, crushing, or bending. Keep it away from pets and children to prevent damage.

6. TROUBLESHOOTING

Problem	Possible Cause	Solution
Device not recognized or unstable connection.	Insufficient power to the peripheral device or active extension unit. Loose connection. Incompatible device.	- Ensure all connections are secure. - Connect an optional 5V 2A external power adapter to the active extension unit, especially for high-power devices. - Try connecting the peripheral directly to the computer to rule out device issues. - Test with a different USB port on your computer.
Slow data transfer speeds.	Connected to a USB 2.0 port instead of USB 3.0. Peripheral device is USB 2.0. Cable damage.	- Ensure both the host port and the peripheral device support USB 3.0 for optimal speeds. USB 3.0 ports are typically blue. - Verify the cable is not damaged.
No power indicator light on the active unit.	No power from the host USB port. Cable not fully plugged in.	- Ensure the male connector is fully inserted into the host USB port. - Try a different USB port on the host computer. - If using an optional power adapter, ensure it is properly connected and functioning.

7. SPECIFICATIONS

Feature	Detail
Model Number	USB302
Cable Length	24 Feet (7.5 Meters)
USB Standard	USB 3.0 (backward compatible with USB 2.0)
Data Transfer Rate	Up to 5 Gbps (USB 3.0 SuperSpeed)
Connector Type (Host)	USB Type-A Male
Connector Type (Device)	USB Type-A Female

Feature	Detail
External Power Port	DC Jack (for optional 5V 2A power adapter, not included)
Shielding	Foil & Braid Shielding
Conductor Material	Bare Copper
Compliance	ROHS Approved
Compatible Devices	PC, Printer, Tablet, Hard Drives, USB Hubs, Mice, Keyboards, Flash Drives

8. WARRANTY AND SUPPORT

MutecPower products are designed for reliability and performance. For specific warranty information, please refer to the product packaging or the official MutecPower website. If you encounter any issues or require technical assistance, please contact MutecPower customer support through their official channels.

Documents - MutecPower – USB302

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